Status of the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1. (Original) A method comprising:

providing a substrate that transmits light having wavelengths of about 100 nm to about 300 nm;

forming an amorphous isotropic layer on the substrate, which transmits the light at wavelengths in the ranges without substantial attenuation of the light;

patterning the layer; and

removing a portion of the layer from regions of the substrate based on the patterning, such that a diffraction element is formed.

- 2. (Original) The method of claim 1, further comprising making the substrate from barium fluoride.
- 3. (Original) The method of claim 1, further comprising making the substrate from calcium fluoride.
- 4. (Original) The method of claim 1, wherein the forming step comprises forming the layer from silicon dioxide.
- 5. (Original) The method of claim 1, wherein the removing step comprises using a material that only removes the portions of the layer.
- 6. (Original) The method of claim 1, wherein the substrate acts as a stop to control a thickness of the layer.

- 7. (Original) The method of claim 1, wherein the providing step comprises providing the substrate having a thickness of about 1 mm to about 6 mm.
- 8. (Original) The method of claim 1, wherein the forming step comprises forming the layer to a thickness of about 100 nm to about 300 nm.

9-16 (Cancelled)

17. (withdrawn) A method of forming a diffraction element that transmits light having a wavelength in a nanometer range comprising:

providing a substrate;

forming an amorphous isotropic layer on the substrate;

forming a resist layer on the amorphous isotropic layer;

patterning the resist layer;

removing a portion of the resist layer based on the patterning;

patterning the amorphous isotropic layer based on the previous patterning

step; and

removing a remaining portion of the resist layer.

18. (withdrawn) A method of forming a diffraction element that transmits light having a wavelength in a nanometer range comprising:

providing a substrate;

forming a resist layer;

patterning the resist layer;

removing a portion of the resist layer based on the patterning;

forming an amorphous isotropic layer on the patterned resist layer;

polishing the amorphous isotropic layer; and

removing a remaining portion of the resist layer.

- 19. (Original) The method of claim 1, wherein the patterning step comprises: forming a resist layer on the layer; exposing a pattern onto the resist layer; removing a portion of the resist layer based on the exposing; removing a portion of the layer based on the pattered resist layer; and removing a remaining portion of the resist layer.
- 20. (Original) The method of claim 1, wherein the forming step comprises forming the layer to a thickness substantially equal to the wavelength of the light.
- 21. (Original) The method of claim 1, wherein the providing step provides an optical element as the substrate.
- 22. (Original) The method of claim 1, wherein the providing step provides a lens as the substrate.
- 23. (Original) The method of claim 1, wherein the providing step provides a mirror as the substrate.